

ABSTRACT

An injection apparatus includes components that facilitate injection of relatively viscous materials into a patient. An injection apparatus may include a transition-bore needle apparatus, which has a proximal end, a distal end, and a lumen extending from the proximal end to the
5 distal end, in which the diameter of the proximal end is greater than the diameter of the distal end. An injection apparatus may include a hand-held injection facilitation apparatus, which may be coupled to a syringe. The hand-held injection facilitation apparatus can include a pivot arm and a body with a rod disposed within the body and coupled to the pivot arm. Movement of the pivot arm results in a proximal or distal movement of the rod within the body to effectively cause
10 material to be expelled from the syringe. An injection apparatus may include a transition-bore needle apparatus and a hand-held injection facilitation apparatus in combination.